

GOLDAYEV, I.P., kand. tekhn. nauk; POLEVICHEN, Ye.P., kand. tekhn. nauk;
POPOV, M.N., kand. tekhn. nauk; FURSOV, A.P., inzh.

Air gas-jet thermal hammer for breaking rocks. Stroi. i dor.
mash. IG no.6:19-21 Je '65. (MIRA 18:8)

KOTEL'NIKOV, I.V.; POPOV, N.N.; VARAVA, V.I.; ANISIMOV, A.T.

Influence of the size and cross-section of a furnace on the technical and economic indices of blast-furnace smelting of ferromanganese. Stal' 25 no.10:880-883 O '65.

(MIRA 18:11)

L 07793-67 EWT(m)/EWP(e)/EWP(t)/ETI IJP(c) JD/WJ/JG/WD/AT/WH/JH

ACC NR: AP6034107

SOURCE CODE: UR/0089/66/021/004/0316/0317

AUTHOR: Popov, N. N.

ORG: none

TITLE: The Third All-Union Seminar on Oxidation-Resistant Coatings

SOURCE: Atomnaya energiya, v, 21, no. 4, 1966, 316-317

TOPIC TAGS: seminar, oxidation resistant coating, protective coating, heat resistant coating, diffusion coating, refractory metal coating, steel coating, nonmetallic material coating

ABSTRACT: The third Seminar on oxidation-resistant coatings, sponsored by the Institute of the Chemistry of Silicates, Academy of Sciences SSSR, was held in Leningrad on 27-31 May 1966 and was attended by 420 representatives of 130 organizations. Fifty reports were presented. New theoretical developments in physicochemical processes of coating formation in molten and gaseous media were dealt with in reports of V. P. Elyutin, N. N. Rykalin, A. A. Appen, M. A. Maurakh and M. Kh. Shorshov. Of theoretical and practical interest was the report of A. I. Avgustnik and G. I. Zhuravlev on the thermal shock resistance of ceramic coatings. G. V. Karpenko described the method and a semi-industrial unit for diffusion coating steels, evaluated the oxidation resistance of diffusion layers at various temperatures, and discussed the effect of chromium, vanadium and aluminum diffusion coatings the

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V. E. Gorbatenko, and L. I. Gotsil described the

SUB CODE: 11/ SUBM DATE: none/ ATD PRESS: 5101

APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0013423

Card

2/2

POPOV, N.O.

Flies

More about control of the "hay-rider" fly. Pchelovodatvo 29 no. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1952 1977/ Uncl.

BUKAT, G.M.; POPOV, N.P.

Capture of μ -mesons by the B^{10} nucleus. Zhur. eksp. i teor.
fiz. 46 no. 5:1782-1786 My '64. (MIRA 17:6)

1. Fiziko-tekhnicheskiy institut imeni Ioffe AN SSSR.

BUKHOVOSTOV, A.P.; POPOV, N.P.

Capture of μ -mesons by polarized nuclei with spin $1/2$.
Zhur. eksp. i teor. fiz. 46 no.5:1842-1852 My '64. (MIRA 17:6)

1. Fiziko-tekhnicheskii institut imeni A.F. Ioffe AN SSSR.

POPOV, N.P.

Geochemical characteristics of Maikov clays as fertilizers with
microelements (fish horizons in the Northern Caucasus). Inform.
sbor. VSEGEI no.9:97-105 '59. (MIRA 13:12)
(Caucasus, Northern—Clay
(Trace elements)

POPOV, N.P.

Conference on selenium and tellurium. Zav.lab. 26 no.12:1443 '60.
(MIRA 13:12)
(Selenium--Congresses) (Tellurium--Congresses)

LASTOVTSEV, A.M.; POPOV, N.P.

Power required for the mixing of fluidized free-flowing media,
Khim.prom. no.11:820-822 '63. (MIRA 17:4)

DOLGINOV, A.Z.; POPOV, N.P.

Polarization of β -electrons from oriented RaE. Zhur. eksp. i teor.
fiz. 38 no. 5:1518-1524 May '60. (MIRA 13:7)

1. Leningradskiy fiziko-tekhnicheskii institut Akademii nauk SSSR.
(Electrons) (Radium--Isotopes)

GLADKOVSKIY, V.A.; GINDIN, A.Sh.; KOSSOVSKIY, L.D.; POPOV, N.P.

Evaluation of the magnitude of residual stresses in surface
layers of a back-up roll. Zav. lab. 29 no.9:1128-1129 '63.
(MIRA 17:1)

1. Permskiy politekhnicheskiy institut.

L 10218-63

EPF(n)-2/EWT(m)/BDS--AFFTC/ASD/

SSD--Pu-4

ACCESSION NR: AP3000068

S/0056/63/044/005/1679/1686

AUTHOR: Popov, N. P.

TITLE: Gamma-neutrino correlation in muon capture 19

SOURCE: Zhurnal eksper. i teoret. fiziki, v. 44, no. 5, 1963, 1679-1686

TOPIC TAGS: Gamma-neutrino correlation, muon K-capture, pseudoscalar interaction constant

ABSTRACT: A formula for the correlation of the directions of emission of the neutrino and Gamma-ray quantum with the direction of the muon beam is obtained for the case of allowed K capture. It is shown that the Gamma-Nu correlation for the capture of an unpolarized muon is very sensitive to the magnitude and sign of the constant of the induced pseudoscalar interaction, so that a study of this angular correlation can yield more accurate information about the sign and magnitude of the pseudoscalar interaction constant and the contribution of "weak magnetism" than is given by some of the other performed experiments. Such a correlation exists only when there are correction terms, and can amount

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ACCESSION NR: AP3000068

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to as much as 20 per cent. A general formula is given for the correlation in muon K capture of any degree of forbiddenness. It is shown that calculation of the nuclear matrix elements is needed only for the estimate of corrections that do not contain the P interaction and the "weak magnetism," but it is necessary to take these corrections into account in determining the lower limit on the asymmetry coefficient. "The author is deeply grateful to V. N. Gribov, A. Z. Dolginov, I. T. Dyatlov, and V. M. Shekhter for valuable discussions, and also to V. G. Gorshkov for many conversations." Orig. art. has: 17 formulas.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe Akademii nauk SSSR
(Physicotechnical Institute, Academy of Sciences SSSR)

SUBMITTED: 25Dec62 DATE ACQ: 12Jun63 ENCL: 00

SUB CODE: PH NR REF SOV: 004 OTHER: 006

Card

2/2 *rh/gz*

L 29289-66 EWT(1)/FCC GW

ACC NR: AP6019302

SOURCE CODE: UR/0203/65/005/004/0770/0771

AUTHOR: Popov, N. P.; Ploshchenko, O. S.

ORG: Institute of Terrestrial Magnetism, the Ionosphere and Radio Wave Propagation,
SO AN SSSR (Institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln
SO AN SSSR)

TITLE: Observations of vertically moving disturbances at Irkutsk

SOURCE: Geomagnetizm i aeronomiya, v. 5, no. 4, 1965, 770-771

TOPIC TAGS: atmospheric disturbance, solar activity

ABSTRACT: The article cited below describes vertically moving disturbances of a U-form which appear in the region of critical frequencies of the F2 layer and then move along the F2 layer in the direction of a decrease of frequency. There is a seasonal variation in the frequency of occurrence of such movements. In summer they are observed much less frequently than in winter. In autumn the frequency increases sharply, attaining a maximum in winter. With a decrease of the relative values of Wolf numbers the relative frequency of vertically moving disturbances also decreases. The frequency of appearance of such movements increases with sunrise and decreases sharply with sunset. The frequency of their occurrence may be determined to some degree by the state of ionization of the F2 layer. It can be postulated that vertically moving disturbances are a manifestation of the influence of solar activity on the earth's atmosphere. Orig. art. has: 2 figures. [JPRS]

SUB CODE: 04, 03 / SUBM DATE: 03Aug64 / ORIG REF: 00412

Card 1/1 UDC: 550.388.2

BELOPOL'SKIY, M.P.; POPOV, N.P.

Determination of scandium in aluminosilicates, coal ashes, and minerals.
Zav.lab. 30 no.12:1441-1443 '64. (MIRA 18:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskii institut.

POPOV, N.P.

Use of the gamma irradiation method in studying the volume density of a powdered medium which is being stirred. Inzh.-fiz. zhur. 7 no.9:19-24 (MIRA 17:12)
S '64.

1. Institut po udobreniyam i insk~~ti~~fungisidam im. prof. Ya.V.Samoylova, Moskva.

POLEV, A.I.; POPOV, N.P.; NYATIN, V.P.

Discussion of the article "Eliminate lack of personal responsibility in servicing automatic train stop devices." Avtom., telem. i svyaz' 7 no.5:41 My '63. (MIRA 16:7)

1. Starshiy elektromekhanik kontrol'no-ispytatel'noy stantsii Mikun'skoy distantzii signalizatsii i svyazi Severnoy dorogi (for Plev). 2. Starshiy elektromekhanik kontrol'no-ispytatel'noy stantsii Kuloyskoy distantzii signalizatsii i svyazi Severnoy dorogi (for Popov). 3. Starshiy elektromekhanik kontrol'nogo punkta avtomaticheskoy lokomotivnoy signalizatsii, Sverdlovs, Passazhirskey distantzii signalizatsii i svyazi Sverdlovskoy dorogi (for Nyatin).
(Railroads--Automatic train control)

POPOV, N.P.

Gamma quantum - neutrino correlation in μ -meson capture. Zhur.
eksp.i teor.fiz. 44 no.5:1679-1686 My '63. (MIRA 16:6)

1. Fiziko-tekhnicheskiy institut imeni A.F.Ioffe AN SSSR.
(Mesons--Capture) (Gamma rays) (Neutrinos)

POPOV, N. P.
DOLGINOV, A. Z. AND POPOV, N. P.

"First Order Forbidden β - γ -Correlation for Oriented Nuclei."
Nuclear Physics, vol. 7, No. 6, p. 591-598, 1958. (No. Holland Publ. Co.)
Physico-Tech. Inst. Acad. Sci. USSR, Leningrad.

Abstract: Explicit formulae for β - γ -correlation of oriented nuclei in first forbidden β -transitions are obtained. All five types of β -interaction are considered and the Coulomb field of an extended nucleus is taken into account. Explicit β - γ -correlation formulae for non-oriented nuclei are obtained as a particular case. Angular as well as polarization correlation is considered.

POPOV, N.P., inzh.

Effect of surface treatment on the fatigue limit of springs. Sbor.
st. CHPI no.11:103-110 '57. (MIRA 11:4)
(Metals--Fatigue) (Springs (Mechanism))

SOV/124-58-7-8214

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 7, p 124 (USSR)

AUTHOR: ~~Popov, N.P.~~

TITLE: The Effect of Surface Treatment on the Fatigue Strength of
Springs (Vliyaniye poverkhnostnoy obrabotki na ustalostnuyu
prochnost' pruzhin)

PERIODICAL: Sb. statey Chelyab. politekhn. in-t, 1957, Nr 11, pp 103-110

ABSTRACT: Bibliographic entry

1. Springs--Fatigue 2. Springs--Surface properties

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83589

S/056/60/038/005/022/050
B006/B070

24.6520

AUTHORS: Dolginov, A. Z., Popov, N. P.

TITLE: Polarization of Beta Electrons From Oriented RaE /9

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,
Vol. 38, No. 5, pp. 1518 - 1524

TEXT: The β -transition of RaE is a forbidden transition in first order. The spectrum of the electrons so emitted is, therefore, different from the usual form. A. I. Alikhanov, G. P. Yeliseyev, and V. A. Lyubimov (Ref. 2), and B. V. Geshkenbeyn, S. A. Nemirovskaya, and A. P. Rudik (Ref. 3) have already carried out investigations on the anomalous form of the RaE spectrum and attempted to give a theoretical interpretation of the experiments. It is shown in the present work that the difficulties of interpretation may be overcome by taking account of the transverse polarization of the electrons emitted by a RaE nucleus whose spin is oriented with respect to the external field. If time parity is conserved, the degree of polarization of the electrons in the $[\vec{n}\vec{n}_0]$ direction does not exceed 2%. ($\vec{n} = \vec{p}/|\vec{p}|$, $\vec{p}$ - momentum of the β -electron, $\vec{n}_0$ - direction

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Polarization of Beta Electrons From Oriented
RaE

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B006/B070

of the predominant spin orientation). If the conservation of time parity is violated, the degree of polarization can reach a value of 45%. Using the experimental data concerning the form of the spectrum, and considering the longitudinal polarization of the β -particles, the authors determine the possible range of values of the nuclear matrix elements x

and y . $x = i \xi_V \left(\vec{r} / \xi_A \right) [\vec{\sigma} \vec{r}]$ and $y = \xi_V \left(\alpha / \xi_A \right) [\vec{\sigma} \vec{r}]$; $\xi_V^2 = |C_V|^2 + |C_V'|^2$,

$\xi_A^2 = |C_A|^2 + |C_A'|^2$; x and y are real quantities, the C are constants of β -interaction. It appears from the form-factor curves $C(E) = f(E_0)$, shown in the accompanying figure, that the experimentally observed form of the spectrum and the magnitude of longitudinal polarization can be best described by the values of x in the range 0.67 to 1.0 and the corresponding values of y (depending on the radius of the nucleus). The coefficients a_1 and b_1 in the polarization formula were calculated by taking account of the finite dimensions of the nucleus for the AV -interaction variant. For this purpose, a homogeneous distribution of charge in the nucleus for two values of the nuclear radius ($r_0 = 1.2$ and 1.5 cm)

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Polarization of Beta Electrons From Oriented RaE S/056/60/038/005/022/050
RaE B006/B070

has been assumed at a limiting energy of $E_0 = 3.26 \text{ mc}^2$; a_0 characterizes the deviation of the longitudinal polarization of the β -particles of the unoriented RaE from v/c . The results of numerical computations are given in tables. Table 2 gives the values of a_0 experimentally determined by various authors. K. A. Ter-Martirosyan is thanked for information and interest; L. A. Sliy, B. A. Volchok, B. S. Dzhelepov, and L. N. Zyryanova are mentioned. There are 1 figure, 4 tables, and 11 references: 5 Soviet, 4 US, 1 Japanese, and 1 Dutch.

ASSOCIATION: Leningradskiy fiziko-tekhnicheskiy institut Akademii nauk SSSR (Leningrad Institute of Physics and Technology of the Academy of Sciences USSR)

SUBMITTED: November 24, 1959

Card 3/3

BELOPOL'SKIY, M.P.; GUMBAR, K.K.; POPOV, N.P.

Methods for the photocolormetric determination of scandium in
coal ashes. Zav.lab. 28 no.8:921-922 '62. (MIRA 15:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskii institut.
(Scandium--Analysis) (Coal--Analysis)

SHELLER, V.R.[Schoeller, W.R.deceased]; POUELL,A.R.[Powell,A.R.];
BELOPOL'SKIY, M.P.[translator]; BYKOVA, V.S.[translator];
KNIPOVICH, Yu.N.[translator]; KRASIKOVA, V.M.[translator];
POPOV, N.P.[translator]; STOLYAROVA, I.A.[translator]; YUSOVA,
V.A.[translator]; ZAYKOVSKIY,F.V., retsenzent; SHCHERBOV,D.P.,
retsenzent; NEMANOVA, G.F., red. izd-va; IVANOVA,A.G., tekhn.red.

[The analysis of minerals and ores of the rarer elements] Analiz
mineralov i rud redkikh elementov. Pod obshchei red. IU.N.Knipo-
vich i N.P.Popova. Moskva, Gosgeoltekhizdat, 1962. 447 p.
(MIRA 15:12)

(Mineralogy, Determinative) (Metals, Rare and minor)

GLADKOVSKIY, V.A.; MOROZOV, A.N.; STROGANOV, A.I.; VACHUGOV, G.A.;
Prinimali uchastie: BELOV, B.V., inzh.; POPOV, N.P., inzh.;
BAYAZITOV, M.I., inzh.

Effect of work hardening on the properties of structural
steel. [Sbor. trud.] Nauch.-issledovatel'skiy institut metallurgii (for
'61. no.4:144-150
(MIRA 15:11)

1. Nauchno-issledovatel'skiy institut metallurgii (for
Gladkovskiy, Morozov, Stroganov). 2. Zlatoustovskiy
metallurgicheskiy zavod (for Vachugov).
(Steel, Structural—Hardening)

KASHIRIN, N.A.; GLADKOVSKIY, V.A.; FRIKKE, S.A.; Prinimali uchastiyo:
POPOV, N.P., inzh.; BARYSHEV, S.P., inzh.; SUVOROVA, V.I.,
inzh.; SERGEYEV, I.I.; inzh.

Effect of expanding on the distribution of residual stresses
in large-diameter pipes. [Sbor. trud.] Nauch.-issl.inst.met.
no.4:158-163 '61. (MIRA 15:11)

1. Nauchno-issledovatel'skiy institut metallurgii (for Kashirin,
Gladkovskiy). 2. Ural'skiy nauchno-issledovatel'skiy trubnyy
institut (for Frikke).

(Expanded metal)
(Strains and stresses)

POPOV, N.P.

Contribution of third forbidden transitions to the
 β -electron spectrum and polarization of RaE. Izv. AN SSSR.
Ser.fiz. 27 no.2:283-285 F '63. (MIRA 16:2)

1. Fiziko-tekhnicheskiy institut im. A.F.Ioffe AN SSSR.
(Quantum theory) (Beta rays—Spectra) (Radium)

BELOPOL'SKIY, M.P.; POPOV, N.P.

Quantitative isolation of scandium from samarskite-type minerals
Inform.sbor.VSEGEI no.51:45-55 '61. (MIRA 15:8)
(Skandium--Analysis) (Samarskite--Analysis)

BELOPOL'SKIY, M.P.; GUMBAR, K.K.; POPOV, N.P.

Photocolorimetric method of determining scandium in aluminum
silicates and coal ashes. Inform.sbor.VSEGEI no.51:21-43 '61.
(MIRA 15:8)

(Colorimetry) (Scandium—Analysis)

DOLGINOV, A.Z.; POPOV, N.P.

Polarization of β -particles and the β - γ correlation of the
first forbidden transition for oriented nuclei. Zhur.eksp.
i teor.fiz. 36 no.2:529-538 F '59. (MIRA 12:4)

1. Leningradskiy fiziko-tehnicheskii institut AN SSSR.
(Nuclear reactions)

L 41145-66 ENT(1)/7 GD/WR SOURCE CODE: UR/0000/66/000/000/0094/0096
 ACC NR: AT6027217

AUTHOR: Popov, N. P.; Vasil'yev, G. Y.

ORG: none

TITLE: equipment

Description of a wideband antenna for vertical ionosphere sounding

SOURCE: AN SSSR. Sibirskoye otdeleniye. Sibirskiy institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln. Issledovaniya po geomagnetizmu i aeronomii (Studies in geomagnetism and aeronomy). Moscow, Izd-vo Nauka, 1966, 94-96

TOPIC TAGS: hf antenna, dipole antenna, *ionospheric sounder*

ABSTRACT: A folded dipole antenna in an inverted V-configuration (see Fig. 1) modeled on the French design was tested at the Siberian Institute of Terrestrial

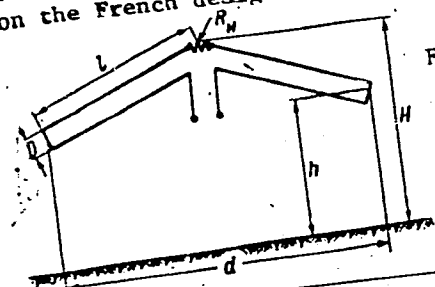


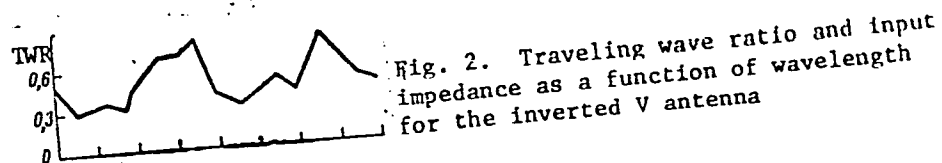
Fig. 1. The inverted V antenna

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ACC NR: AT6027217

Magnetism, Ionosphere and Radio Wave Propagation of the Siberian Department of the Academy of Sciences USSR. The antenna, intended for vertical ionosphere sounding,



has a wider frequency range than a rhombic antenna, i.e., from 0.37 to $1.67 \lambda_0$ where $\lambda_0 = 30$ m. The relative field strength of the main lobe was not less than 0.5 for the frequency range from 3.7 to 16 Mc. The input impedance of this antenna is not constant with frequency, as can be seen from Fig. 2: however the traveling wave ratio

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ACC NR: AT6027217

(TWR) did not fall below 0.3 (see Fig. 2) when the antenna was loaded by a load resistor $R_H = 650$ ohm and fed from a feeder line whose characteristic impedance was 600 ohm. The antenna design formulas are as follows: $h = \lambda_0/4$, $H = 2h$, $l = 3h$, $D = 0.01 \lambda_{max}$, and $d = \lambda_0\sqrt{2}$. The dummy load may be realized by using two series 330-ohm resistors whose mid-point is grounded. Orig. art. has: 5 figures. [BD]

SUB CODE: 09,04/SUBM DATE: 25Dec65/ ORIG REF: 004/ OTH REF: 001/ ATD PRESS: 5054

Card 3/3 LC

POPOV, N. P.

Philosophy

Defense of candidates' dissertations in the Department of Philosophy for the academic year 1951-1952. Vest. Len. un. 7, No. 8, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1953. Uncl.

PCPOV, N. P.

"Hygienic Evaluation of Food Rations of Ordinary Children's Homes." Sub 25
Jun 51, First Moscow Order of Lenin Medical Inst. *Cand. Medical Sci.*

Dissertations presented for science and engineering degrees in Moscow
during 1951.

Sum. No. 480
SO: Sum. No. 480, 9 May 55.

POPOV, N.P.

Hygienic evaluation of food rations in an average children's home.
Gig. i san., no.8:47-48 Ag '54. (MLRA 7:9)

1. Iz kafedry gigiyeny pitaniya I Moskovskogo ordena Lenina meditsinskogo instituta.
(CHILDREN--NUTRITION)

24(5)

AUTHORS:

Dolginov, A. Z., Popov, N. P.

SOV/56-36-2-28/63

TITLE:

The Polarization of β -Particles and the β - γ -Correlation for the First Forbidden Transitions in Oriented Nuclei
(Polyarizatsiya β -chastits i β - γ -korrelyatsiya pervogo zapreshcheniya dlya oriyentirovannykh yader)

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959, Vol 36, Nr 2, pp 529-538 (USSR)

ABSTRACT:

Dolginov (Ref 1) in an earlier paper derived a formula for the angular- and polarization correlations of particles in β -decay (any order of the forbidden transition). In the present paper only forbidden transitions of the first order are dealt with, for which explicit formulae are derived. The method by which the problem is dealt with is described by reference 1. Here the authors confine themselves to finding the mathematical solution; explicit formulae are derived for all five kinds of β -coupling in consideration of the nonconservation of parity. Also the Coulomb (Kulon) field of an extended nucleus is taken into account, and nonoriented nuclei are treated as special cases. It was found that, as expected, at $Z \gg 2A^{1/3}$ E correlation is small also for the first forbidden transitions. In contrast

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The Polarization of β -Particles and the
 β - γ -Correlation for the First Forbidden Transitions in Oriented Nuclei

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hereto correlation is great for β - γ -transitions of oriented nuclei if $Z \gg 2A^{1/3} E$, in so far as this correlation exists for permitted transitions. For aligned nuclei correlation between $\vec{J}_0$, $\vec{p}$, and $\vec{k}$ is great at $Z \gg 2A^{1/3} E$ only if the theory is not invariant with respect to time inversion. Mathematical problems are dealt with by a total of 5 appendices. There are 1 table and 10 references, 3 of which are Soviet.

ASSOCIATION: Leningradskiy fiziko-tekhnicheskii institut Akademii nauk SSSR
 (Leningrad Physico-Technical Institute of the Academy of Sciences, USSR)

SUBMITTED: July 29, 1958

Card 2/2

1937, U. S.

1937 tsamvay mchir sv. 4, zap kanchelore mchir sv. 4, 17, str. 155-363

POPOV, N. P.

Popov, N. P. and Morozov, S. N. "The treatment of calf monieziaiasis with copper sulfate",
Sbornik rabot po gel'mintologii (Vsesoyuz. in-t gel'mintologii im. akad. Skryabina),
Moscow, 1948, p. 174-76.

SO: U-3042, 11 March 53, (Letopis'nykh Statey, No. 10, 1949).

L 40986-65

ACCESSION NR: AR5005639

S/0081/64/000/022/I015/I016

SOURCE: Ref. zh. Khimiya, Abs. 221132

AUTHOR: Popov, N.P.

TITLE: Determining the density of loose material by illumination with gamma rays

CITED SOURCE: Vestn. tekhn. i ekon. inform. N.-1. in-t tekhn.-ekon. issled. Gos. kom-ta khim. prom-sti pri Gosplane SSSR, vyp. 5, 1964, 33

TOPIC TAGS: gamma radiation, radiocesium, density determination, free flowing material, measurement technology

TRANSLATION: A device for determining the density of loose materials during mixing is briefly described. This device uses Cs-137 having an activity of 4.46 meq of Ra as the source of radiation, and an STS-6 counting tube in a type B-2 radiometer. The radio-source and the counting tube, which are enclosed in a lead shield, are fastened to carriages which can be moved along the cylindrical housing of the mixer in the vertical and horizontal planes without disturbing the coaxiality of the collimating holes. M. Mekler

ENCL: 00

SUB CODE: *NP*, IE

Card 1/1 *llc*

POPOV, N. P.

V ochnazhen'ia tetraimidov u kleshchey, "Works on Helminthology"
on the 75th Birthday of K. I. Skryabin, Izdat. Akad. Nauk, USSR, Moscow, 1953, page 565
Chair Parasitology, Kazan State Veterinary Zootechnical Inst. in N. E. Bauman

FOFOV, M. F., ENG.

Irrigation

New sprinkling machines. Gidr. i mel. 4 no. 8, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

PATROVSKIY, Ventseslav [Patrovský, Věnceslav], inzh.; SAVKIVICH, S.S.
[translator]; POPOV, N.P., nauchnyy red.; APANAS'YEVA, Yu.N.,
red.isd-va; BYKOVA, V.V., tekhn.red.

[Analytical chemistry of the rare elements. Translated from the
Czech] Analiticheskaya khimiya redkikh elementov. Pod red. N.P.
Popova. Moskva, Gos.nauchno-tekhn.isd-vo lit-ry po geol. i
okhrane nedr, 1960. 175 p. (MIRA 14:3)
(Metals, Rare and minor--Analysis)

S/032/50/026/012/036/036
B020/1076

AUTHOR: Popov, N. P.

TITLE: Conference on Selenium and Tellurium

PERIODICAL: Zavodskaya laboratoriya, 1960, Vol. 26, No. 12, p. 1443

TEXT: From June 22 to June 27, 1960, the Conference on Selenium and Tellurium was held at the Leningradskiy gornyy institut (Leningrad Mining Institute). It was attended by 110 persons of 49 scientific institutes and plants from 15 economic rayons of the Soviet Union, among them by representatives of works laboratories, scientific research institutes, and other organizations. 22 lectures and 13 reports were delivered, which dealt with problems of physicochemical analysis, the decomposition and the losses in connection with various decomposition methods, quantitative precipitation, the separation and microanalysis, and the phase analysis of selenium and tellurium etc. Mention is made of the Ust'-Kamenogorskiy svintsovo-tsinkovyy zavod (Ust'-Kamenogorsk Lead and Zinc Plant), VSEGEI (All-Union Scientific Research Institute of Geology), UNIPROMED', LGI, UFAN, Noril'skiy kombinat (Noril'sk Combine), GINTsVETMET

Card 1/2

BELOPOL'SKIY, M.P.; GUMBAR, K.K.; POPOV, N.P.

Separation of scandium traces from copper and zinc. Trudy VSZGEI
117:49-52 '64. (MIRA 17:9)

KRIKUNOV, L.A., gornyy inzh.; POPOV, N.S., gornyy inzh.

Results of the 3d All-Union public review of the carrying out
of plans for new techniques in the coal industry. Ugol' 40
no.8:77-79 Ag '65. (MIRA 18:8)

1. Smotrovaya komissiya TSentral'nogo pravleniya Nauchno-
tekhnicheskogo gornogo obshchestva po ugol'noy promyshlennosti.

POPov, N. S.

1A 1/49775

USSR/Minerals
Coal
Mining Methods

May 48

"Frontal Removal of Coal for Working of Thin
Inclined Seams," N. S. Popov, Engr, 4 pp

"Ugol'" No 5 (266)

Describes best methods for working thin coal
seams at an angle of 20 - 25°.

1/49775

POPOV, N. S.

FAYNBERG, A.I., kand.ekon.nauk; DOMBROVSKIY, A.A., kand.ekon.nauk;
POPOV, N.S., kand.ekon.nauk; SKVORTSOVA, N.T., kand.ekon.nauk;
STROGANOVA, T.A., kand.ekon.nauk. Prinsipali uchastiye: BOLOTINA,
O.A., kand.ekon.nauk; GUL'BINOVICH, M.I., PROTSENKO, D.I., red.;
SALAZKOV, N.P., tekhn.red.

[Economics, organization, and planning of municipal services]
Ekonomika, organizatsiia i planirovanie gorodskogo khoziaistva.
Pod obshchei red. A.I.Fainberga. Moskva, Izd-vo M-va kommun.
khov.RSPSR, 1959. 451 p. (MIRA 13:2)
(Municipal services)

SOV-101-58-4-1/12

AUTHORS: Astreyeva, O.M.; Guseva, V.I.; Popov, N.E.

TITLE: The Study of Hydration Processes by Means of a Microscopic Motion Picture Assembly (Izucheniye protsessov gidratatsii pri pomoshchi mikrokinoustanovki)

PERIODICAL: Tsement, 1958, Nr 4, pp 1-4 (USSR)

ABSTRACT: The authors describe methods of observing cement hydration processes thru microscopic and photographic studies. The hydration speed of various minerals, the increase in size and quantity of crystals, the transition from one crystalline form into the other, and the decomposition of aluminum hydrosulfate were determined. However, the kinetics of the process and the transition of the crystalline forms were not successfully established. Gypsum was the first material to be studied. The MKU-1 microscope assembly (Figure 1), was used. The authors conclude: 1) Gypsum dissolves in the same way in all solvents used, excluding "vinsol" solution. 2) The rates at which the semihydrate was dissolved and $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ was formed were different. For minute amounts, the duration of this process in distilled water was 30 - 40 minutes, and in water with additives, 5 - 8 hours. 3) Numer-

Card 1/2

SOV-101-58-4-1/12

The Study of Hydration Processes by Means of a Microscopic Motion Picture Assembly

ous nuclei and very thin needle-shaped crystals were formed.
4) In vinsol solutions, $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ crystals were formed in reduced quantities but the crystals were larger in size. In naphtha soap solution, crystallization occurred only in close proximity to aggregations of semihydrate fragments. Microcine-photography of clinker hydration processes is now being carried out.
There are 7 sets of photos.

1. Gypsum--Hydrolysis
2. Photography--Applications
3. Microscopes--Applications

Card 2/2

SOV-118-58-7-11/20

AUTHORS: Ostrovskiy, A.A. and Popov, N.S., Engineers

TITLE: Mechanized Delivery of Pit-Props in Mines (Mekhanizatsiya dostavki krepzhnogo lesa na shakhtakh)

PERIODICAL: Mekhanizatsiya trudoymkikh i tyazhelykh rabot, 1958, Nr 7, pp 28-29 (USSR)

ABSTRACT: In view of the fact that the existing delivery of pit-props has essential deficiencies, the Kuznetskiy nauchno-issledovatel'skiy ugol'nyy institut - KuzNIUI (the Kuznetsk Scientific Research Institute of Coal Mining) has designed, constructed and introduced at the lumber yard of the "Koksovaya" coal mine im. Stalin, the electro-mechanical suspended monorail track of the type MD-1. The speed of the carriage is 0.3 m per sec; the motor of the ER-5 power drill is used as the drive. The construction of the mono-rail track is very simple, easy to as-

Card 1/2

POPOV, N.S.

SKRAMTAYEV, B.G., professor, laureat Stalinskoy premii; POPOV, N.S., laureat Stalinskoy premii; ORLYANKIN, N.M., laureat Stalinskoy premii; KONOPLEY, F.N., laureat Stalinskoy premii.

Activation of cement by preliminary wet grinding in concrete mixers. Rats.i izobr.predl.v stroi. no.55:12-13 '53. (MLRA 7:3)
(Cement) (Mixing machinery)

ASTREYEVA, O.M.; GUSEVA, V.I.; POPOV, N.S.

Studying hydration processes by means of macrofilming. TSement
24 no.4:1-3 JI-Ag '58. (MIRA 11:9)
(Cement) (Hydration) (Microphotography)

APPROVED FOR RELEASE: Tuesday, August 01, 2000

Sep 48

CIA-RDP86-00513R001342

USSR/Mines
Safety Precautions
Gas

"The Donetsk Coal Field Must Have a Map of the Gas
Content of the Coal Strata," N. S. Popov, Engr, 1 p

"Ugol'" No 9 (270)

Donbass pits are characterized by considerable evolution of gas. Before the war almost 80% of existing pits were dangerous. Calls for gas map of coal field and suggests suitable committee be organized as soon as possible.

20/49T80

58. IMPROVED SAFETY IN DRIVING OF HEADINGS. Popov, N. S. (Ugol
(Coal), May 1949, 34-35).

Safety regulations prescribing temporary support are frequently not observed, especially when power loaders are used. In these cases, the following scheme is proposed:- To the last roof support bar are affixed two removable hasps, through which removable iron poles are pushed. The back ends of these poles lean against the bar of the last but one support. A new bar is then put on the overhanging ends of the removable iron poles and pressed by means of wooden wedges against the roof, clearing the space between the last roof support and the face, new props are set for support of the bar held by the overhanging poles and affixed to the bar by means of a Z-shaped iron placed between the end of the bar and the top of the prop. The hasp holding the iron pole is then removed and attached to the new front bar. The removable iron poles are normally affixed to the bar at a distance equal to one quarter of the length of the bar from the walls.

TOMAKOV, P.I., kand. tekhn. nauk; POPOV, N.S., inzh.

Determining the physico-mechanical properties of rocks in
dump piles in Kuznetsk Basin mines. Ugol' 40 no.4:44-46
Ap '65. (MIRA 18:5)

1. Kuznetskiy nauchno-issledovatel'skiy ugol'nyy institut.

PA 52/11707

POPOV, N. S.

USSR/Mines
Construction, Underground
Coal

May 49

"Increased Safety During Preparatory Mining," N. S.
Popov, Engr, 1 p

"Ugol'" No 5

Refers to use of adjustable tunnel props to support hanging layers, and as a method for increasing production, eliminating cave-ins during preparatory mining. Completely describes propping methods with various illustrations.

50/49T82

POPOV, N.

Foreign trade in the seven-year plan of the German Democratic Republic.
Vnesh. torg. 29 no.11:33 '59. (MIRA 12:12)
(Germany, East--Commerce)

ZEZIN, M.A.; RAKOV, I.D.; POPCV, N.T.

Automatic control for changing the direction of the flame in
pot furnaces. Stek.1 ker. 18 no.8:18-22 Ag '61. (MIRA 14:8)
(Automatic control) (Glass furnaces)

COMMON ELEMENTS																										COMMON RADIALLY INDEX																									
1ST AND 2ND ORDERS																										1ST AND 2ND ORDERS																									
POPPOV, N. V.																																																			
CA The preparation of ash-free coke in cracking units L. A. Aleksandrov and N. V. Popov. <i>Nefi</i> 6, No. 6, 14-15(1935).—Coke produced in the soaking tubes of the Winkler Koch and Wickers cracking units is not suitable for electrodes because of the excessive content of Fe and S, while coke from the Jenkins unit is contaminated with lime. A satisfactory coke is obtained in the Winkler Koch evaporator when the unit is operated by the "non-residue" process, or in special shell stills or Knowles stills. Analytical data and various standards for coke are presented. A. A. Boettling																										22																									
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION FROM SYNDICATE FROM MAP ONE ONE RELATION FROM SYNDICATE																																																			

ПОПОВ, Н. В.

PA 196T103

USSR/Metals - Foundry, Materials

Jul 51

"Mixture for Cores of the Whirling Chamber in the Head of Tractor Cylinders," P. P. Baryshnikova, N. V. Popov, Engineers, Stalingrad Tractor Plant

"Litey Proizvod" No 7, pp 31, 32

Core material previously used caused scorched sand crust and burrs on the surface of whirling chamber. In attempt to eliminate these defects 15 various mixts with different binders were tested. Discusses results and gives compn and physicomechan properties of mixts.

196T103

15

POPOV, N.V.
ca

Artificial manure and its influence on the yield of plants. N. V. Popov. *Trans. Sci. Inst. Fertilizers* (U. S. S. R.) No. 97, 113-33(1983).—Composts of straw and of 3 types of peat (peat moss and meadow peat) were prepd. on a lab. scale in pots in the following manner: (1) straw without fertilizers, (2) straw and urea, (3) straw with urea and phosphates, (4) straw and $(\text{NH}_4)_2\text{SO}_4$, (5) straw with $(\text{NH}_4)_2\text{SO}_4$ and urea, (6) straw with $(\text{NH}_4)_2\text{SO}_4$ and CaCO_3 , (7) straw and NaNO_3 , (8) peat moss with $(\text{NH}_4)_2\text{SO}_4$ and CaCO_3 and (9) meadow peat and $(\text{NH}_4)_2\text{SO}_4$. The straw composts with urea and NaNO_3 lost up to 68% of the dry wts., with $(\text{NH}_4)_2\text{SO}_4$ —41%. The peats with $(\text{NH}_4)_2\text{SO}_4$ lost only 8% of dry matter. Straw composts with NaNO_3 the losses were small. The pure straw composts showed a gain in N. In the urea and nitrate composts very little NH_4 was found. The but with $(\text{NH}_4)_2\text{SO}_4$ considerable NH_4 was found. The $(\text{NH}_4)_2\text{SO}_4$ composts alone gave a crop yield increase during the first year. J. S. Joffe

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

ca 15

THE PREPARATION AND EFFECTIVENESS OF ARTIFICIAL MANURE.
M. Z. Podol'skaya and N. V. Popov. *Trans. Sci. Inst. Fertilizers* (U. S. S. R.) No. 97, 134-53(1933).—
Composts of straw, corn stalks and sunflower stems were prepared by adding various sources of N—NH₄, cyanamide and nitrates—with definite amts. of rock phosphate flour. These were used in vegetation expts. Dry straw applied in the field in potato culture had no influence, but on oats in pot expts. the yields were lowered considerably. Addns. of N to the straw under field conditions increased the yield, even more than when N alone was added. In pot expts. the N alone gave higher yields. Composted straw without any fertilizer addns. increased the yield in the field, but decreased it in pot cultures. Especially was this true for sandy soils. Addns. of N to the soil simultaneously with composted straw gave a higher yield than artificial manure—straw composted with fertilizers. In composting straw with fertilizers large quantities of N were lost from the composts. J. S. Joffe

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

Combined fertilization with manure and mineral fertilizers in the cultivation of summer wheat. N. A. Papineau. *Chemical and Soil Science* 43, 311. Use of N₂O₃ (10, 1000). *Chemical and Soil Science* 43, 311. Use of manure together with mineral fertilizers resulted in a decrease in the removal of N by the crops as compared with tests on: no manure; the grain yield was increased. Ma₂ therefore contributed to a better utilization of soil and fertilizer N by the plants. In the combined fertilization of summer wheat grown on humic chernozem soil by means of fermented manure and mineral fertilizers it is the N, not the P, which should be added first to the manure. A. Papineau-Couture

A. Papineau-Couture

ASB.SLA METALLURGICAL LITERATURE CLASSIFICATION

POPOV, N. V.

POPOV, N. V.

"Physicogeographical Characteristics of the Chigla River Basin." Min Higher Education USSR, Khar'kov State U imeni A. M. Gor'kiy, Khar'kov, 1955. (Dissertation for the Degree of Candidate in Geographical Sciences)

SO: M-955, 16 Feb 56

~~POPOV, Nikolay Vasil'yevich~~; ZASLAVSKIY, I.I., redaktor; VORZHETSOVA,
L.N., redaktor; SOKOLOVA, R.Ya., tekhnicheskij redaktor

[Homemade visual aids in geography] Samodel'nye posobiya po
geografii. Pod red. I.I. Zaslavskogo. Moskva, Izd-vo Akad.
pedagog. nauk RSFSR, 1957. 110 p. (MLRA 10:4)
(Physical geography--Study and teaching--Audiovisual aids)

1. POPOV, N. V.
2. USSR (600)
4. Furniture
7. New standards for furniture. Der.i lesokhim. prom 1 no. 4 - 1952

Monthly Lists of Russian Accessions, Library of Congress, March, 1953, Unclassified.

POPOV, N. V., Eng.

Furniture Industry

In the Council on Art and Technology. Der. i lesokhim. prom. 2, No. 4, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

POPOV, N.V., inzhener.

Standards for upholstered furniture and furniture trim. Der.i lesokhim.
prom. 2 no.12:9-10 D '53. (MLRA 6:11)

1. Tekhnicheskoye upravleniye po fabrichno-zavodskoy promyshlennosti Minles-
bumproma. (Furniture--Standards)

POPOV, N.V., inzhener.

Artistic Council of the former Ministry of the Lumber and Paper
Industry. Der. 1 lesokhim.prom. 3 no.6:30-31 Je '54. (MLRA 7:7)
(Furniture)

POPOV, N.V., inzhener

Furniture of new design; in the artistic council of the Ministry
of Paper and Woodworking industries. Der.prom. 4 no. 5:29-30 My '55.
(Furniture industry) (MIRA 8:10)

POPOV, N.V., inzhener.

Let us develop the production of combination and small-dimension
furniture. Der.prom. 5 no.11:27-28 N '56. (MIRA 10:1)

1. Tsentral'noye byuro tekhnicheskoy informatsii Minbumdrevproma.
(Furniture)

POPOV, N.V., redaktor; SLUTSKIY, M.B., redaktor; SHENDAREVA, L.V., tekhnicheskii redaktor

[Using gluing press for assembling furniture] Opyt primeneniia vaim
dlia sborki korpusnoi mebeli. Moskva, TSentral'noe biuro tekhn.
inform., 1957. 47 p. (MLRA 10:8)

1. Russia (1917- R.S.F.S.R.) Ministerstvo bumazhnoy i derevo-
obrabatyvayushchey promyshlennosti
(Furniture industry)

GULYAYEV, V.I.; POPOV, N.V., nauchn. red.

[Automatic lines for processing scantling parts] Avtomaticheskii liniy obrabotki bruskovykh detalei. Moskva, TSentr. in-t tekhn. informatsii ekon. issledovaniy po lesnoi, bumazhnoi i derevoobrabatyvaiushchei promyshl. 1963. 34 p. (MIRA 17:4)

SHITOVA, A.Ye.; POPOV, N.V., red.

[Intensifying the processes of drying beech timber for furniture manufacture] Intensifikatsiya protsessov sushki bukovykh zagotovok dlia mebel'nogo proizvodstva. Moskva, TSentr. nauchno-issl. in-t informatsii i tekhniko-ekon. issledovaniy po lesnoi, tselliulozno-bumazhnoi, derevo-
obrabatyvaiushchei promyshl. i lesnomu knoz., 1964. 17 p.
(MIRA 18:4)

LASHCHAUER, S.M.; POPOV, N.V., red.

[Measures for the specialization of the furniture industry in Vladimir Province] Meropriiatiia po spetsializatsii mebel'noi promyshlennosti Vladimirskei oblasti. Moskva, TSentr. nauchno-issl. in-t informatsii i tekhniko-ekon. issledovaniia po lesnoi, tselliulozno-bumazhnoi, derevoobrabatyvaiushchei promyshl. i lesnomu khoz., 1964. 28 p.

(MIRA 18:5)

LASHCHAYEV, N.M., SHUTSKII, M.B., nauchn. red.; POPOV, N.V.,
red.

[Specialization of the furniture factories in the Karelian
S.S.R.] Spetsializatsiya mebel'nykh predpriyatii Kareli-
iskoi ASSR. Moskva, TSentr. nauchno-issl. in-t informatsii
i tekhniko-ekon. issledovaniy po lesnoi, tsellulozno-
bumazhnoy, derevoobrabatывaushchey promyshli. i lesnomu
khoz., 1964. 32 p. (MIRA 18:5)

L 03769-67 E#I(d)/ENT(m)/I/EMP(t)/ETI IJP(c) JD/DJ

ACC NR: AP6019852

(A, N)

SOURCE CODE: UR/0418/66/000/001/0079/0081

AUTHOR: Popov, N. V. (Engineer); Braun, M. P. (Doctor of technical sciences); Sokol, A. N. (Candidate of technical sciences); Zaletskiy, T. I. (Candidate of technical sciences) 44 17 5

ORG: None

TITLE: High-quality steel for tractor transmission gears 17

SOURCE: Tekhnologiya i organizatsiya proizvodstva

TOPIC TAGS: nickel steel, tempering, transmission gear, contact stress, tensile strength

ABSTRACT: The authors discuss the development of a series of grades of steel containing small amounts of nickel and therefore less expensive than chrome-nickel steel. The new grades have been used and tested at the Department of Metal Technology of USKha and the Central Plant Laboratory of the Volgograd Tractor Plant. This Plant Laboratory has proposed a new grade of steel (251 KhGSNT) with the following composition (in %): C 0.20-0.26, Mn 1.0-1.3, Si 0.8-1.0, Cr 1.1-1.4, Ni 0.9-1.2, P 0.05-0.10, P less than 0.04 and S less than 0.05. The mechanical properties of this new steel were compared with those of 20KhNZA high-nickel steel after normalization by pseudocarbonization, quenching and low-temperature tempering. This comparison showed that the mechanical

Card 1/2 * 20X H3A

** 25X FCHT

UDC: 669.15:621.833

L 03769-67

ACC NR: AP6019852

3

properties of the new grade of steel are superior to those of 20KhNZA. Additional tests were carried out to determine the applicability of the new grade of steel in making parts, and in particular its ability to withstand heavy loads such as those which occur in tractor transmissions. The sensitivity of this steel to concentrated stresses was studied by bending circular specimens with annular cuts. Analysis of the results shows that 25KhGSNT steel is less sensitive to concentrated stresses than 20KhNZA steel. The contact strength of the steel was also tested on a three-roller machine made by the Institute of Mechanics of the Academy of Sciences UkrSSR. Stresses at the point of contact during testing were 200-450 kg/mm² with a test base of 10⁷ cycles. The tensile strength of the new steel is 300 kg/mm² while that of 20KhNZA is 250 kg/mm². Products made from 25KhGSNT steel require moderate cooling after normalization. This steel has been used by the Volgograd Tractor Plant for several series of gears in the transmissions of the DT-54A and DT-75 tractor engines. Tests of these gears under operating conditions show satisfactory results. The new grade of steel gives a savings of 20-25 kg of nickel per ton of steel, an economy of more than 2 kg of nickel per transmission. Orig. art. has: 3 tables.

SUB CODE: 11, 13/ SUBM DATE: none

Card 2/2

POPOV, L.V., red.

[Nonstandard equipment in furniture manufacture] Netipovoe
oborudovanie mebel'nogo proizvodstva. Moskva, 1962. 36 p.
(MIRA 17:9)

1. Moscow. Tsentral'nyy institut tekhnicheskoy informatsii
i ekonomicheskikh issledovaniy po lesnoy bumazhnoy i de-
revoobrabatyvayushchey promyshlennosti.

L 14009-65 EWT(m)/EWA(d)/EWP(t)/EWP(b) AFTC(p) MJW/JD

ACCESSION NR: AR4045892

S/0137/64/000/007/1057/1057

SOURCE: Ref. zh. Metallurgiya, Abs. 7I361

AUTHOR: Sokol, A. N.; Mirovskiy, E. I.; Braun, M. P.; Vinokur, B. B.;
Popov, N. V.; Kalinichev, M. A.

TITLE: Non-nickel alloy steels for heavily loaded parts

CITED SOURCE: Sb. Legirovaniye staley. Kiyev, Gostekhnizdat USSR,
1963, 41-46

TOPIC TAGS: alloy steel, load, steel bolt, connecting rod bolt, bolt

TRANSLATION: The structure and properties of 40KhN¹, 40Kh¹, 45G2¹, and 30KhGSA steels were investigated for the purpose of choosing the correct material for connecting rod bolts. Practical tests were also carried out of connecting rod bolts under elongation and with cyclic elongation-compression loads at a frequency of 1,000 cycles/min under a stress on a minimum cross section area of the bolt of 20-24 kg/mm². Elongation tests showed that 45Kh¹, 45G2¹, and 30 KhGSA steels guarantee the required strength of the bolt. In fatigue tests, the largest

Card 1/2

L 14009-65

ACCESSION NR: AR4045892

number of cycles up to destruction was registered for 30KhGSA steel, which also showed the minimum sensitivity to a concentration of stresses. The series of tests showed that the use of 40KhN steel for connecting rod bolts is not recommended. Based on data for strength, hardenability, and structure, the use of 30KhGSA steel is recommended.

SUB CODE: MM, AS

ENCL: 00

Card 2/2

GULYAYEV, V.I.; POPOV, N.V., red.

[Automatic apparatus for heating furniture parts before
varnishing] Avtomaticheskaya ustanovka dlia podgreva de-
talei pered lakirovaniem. Moskva, TSentr. nauchno-issl.
in-t informatsii i tekhniko-ekon. issledovaniy po lesnoi,
tselliulozno-bumazhnoi, derevoobrabatyvaiushchei promyshl. i
lesnomu khoziaistvu, 1963. 16 p. (MIRA 17:5)

VOLODINA, A.S.; IVANOVA, Z.P.; CHUDAKOVA, A.P.; KUKANOVA, V.I.;
POPOV, N.V., red.; MILIKESOVA, I.F., tekhn. red.

[Album of wood-cutting instruments] Al'bom derevorezhushchego
instrumenta. Moskva, TSentr. in-t tekhn. informatsii i ekon.
issl. po lesnoi, bumazhnoi i derevoobrabatyvaiushchei promyshl.,
1962. 353 p. (MIRA 17:3)

1. Moscow. Nauchno-issledovatel'skiy institut derevoobrabaty-
vayushchego mashinostroyeniya.

IVANTSOV, V.V.; POPOV, N.V., red.; SHENDAREVA, L.V., tekhn. red.;
MILIKESOVA, I.F., tekhn. red.

[Simplified calculation of the intrashop pneumatic conveying of wood waste] Uproshchennyi raschet vnutritsekhovykh sistem pnevmotransporta drevesnykh otkhodov. Moskva, TSentr. in-t tekhn. informatsii i ekon. issled. po lesnoi, bumazhnoi i derevoobrabatyvaiushchei promyshl., 1962. 103 p. (MIRA 17:3)

1. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy derevoobrabatyvayushchey promyshlennosti (for Ivantsov).

MOROZOV, N.A., kand. tekhn. nauk; ARSEN'YEV, K.K., kand. tekhn.nauk;
POPOV, N.V., red.; SHENDAREVA, L.V., tekhn. red.; MILIKESOVA,
I.F., tekhn. red.

[Manufacture of bent and glued blocks for furniture parts]
Izgotovlenie gnutokleenykh blokov dlia detalei mebeli. Moskva,
Tsent. inst tekhn. informatsii i ekon. issl. po lesnoi, bu-
mashnoi i derevoobrabatyvaiushchei promyshl., 1962. 34 p.
(MIRA 16:4)

(Woodwork)

POPOV, Nedeljko, dr.; BELANCIC, Ivo, dr.

Some observations on the problem of the cervical rib syndrome.
Liječn. vjesn. 84 no.10:1011-1020 '62.

1. Iz Kirurškog odjela i Rendgenološkog instituta Opće bolnice
"Dr Ml. Stojanovica" u Zagrebu.
(SCALENUS ANTICUS SYNDROME)

SECRET, N.V.

AUTHOR:

Panovko, V. M., Engineer

TITLE:

All-Union Conference on the hardfacing of dies for hot and cold press-forming

PERIODICAL: Svarochnoye proizvodstvo, no. 3, 1963, 44 - 45

TEXT: The First All-Union Scientific-Technical Conference on hardfacing of dies was held at Volgograd from November 27 - 29, 1962. The Conference heard the following reports: N. T. Prosvirov (VNIPTMASH) on "Operational conditions and the type of forging dies"; L. A. Pozdnyakova (ENIKMASH) on "Problems of the durability of dies and press-forming steels"; V. A. Popov, ENIKMASH, on some structural peculiarities of carbide tools for cold extrusion and upsetting; I. I. Frumin, B. V. Danil'chenko (Institute of Electric Welding imeni Ye. O. Paton) on "Electric-slag hardfacing of some dies"; L. Kolomiets (IES imeni Ye. O. Paton) on "Reconditioning of dies by electric-slag hardfacing"; V. A. Timchenko (IES imeni Ye. O. Paton) on "A machine with program control for automatic hardfacing of forging dies"; Reports on manual arc-hardfacing of dies were delivered by N. V. Popov (Volgograd Tractor Plant), V. M. Panovko and Ye. O. Bloshkin (Moscow Experimental Welding Plant); O. D. Superko (Chelyabinsk Tractor Plant), N. I. Nikoiko (Ural Heavy Machinebuilding Plant), P. M. Sapov ("Rostsel-mash"), N. I. Kuzovkova (GAZ), Yu. P. Zaytsev (ENIKMASH), V. I. Il'in (ZIL), Gopovin (Khar'kov "Svet shakhtera" Plant), and others. In a decision the Conference mentioned deficiencies connected with the subject, i.e. lack of unified electrodes; of centralized production; of unified technological instructions on the hardfacing of dies; of methods for evaluating the quality of hardfaced metal, and lack of high-quality electrodes for hardfacing cast-iron dies. The Conference decided to take steps in order to eliminate the aforementioned deficiencies.

POPOV, N.V., podpolkovnik meditsinskoy sluzhby

Study of the intensity of immunity in persons inoculated
with live anti-influenza monovaccine A₂. Voen.-med. zhur.
no. 4: 80-81 Ap '61. (MIRA 15:6)

(INFLUENZA)

POPOV, N.V., kand.biolog.nauk (g.Novocherkassk, Rostovskoy oblasti)

Phenological information in the protection of plants. Zashch.
rast. ot vred. i bol. 5 no.9:46-47 S '60. (MIRA 15:6)
(Plants, Protection of)
(Phenology)

7
MISPALOV, D. M. (probably D. F.), ZARONCHENKO, D. M. (or V. M.),
ROGOV, B. I. and POLOV, E. V.

"An Apparatus for Radiometric Bore-hole studies."

report to be submitted for the Conference on Nuclear Geophysics,
Krakow, Poland, 24-30 Sept 1962.

POPOV, N.V.

S/169/61/000/011/027/065
D228/D304

AUTHORS: Alekseyev, F.A., Yerozolimskiy, B.G., Bessalov, D.P.,
Bondarenko, L.N., Boytsik, L.P., Popov, N.V.,
Khaustov, A.I., Romanovskiy, V.P., Shimelevich, Yu.S.
Shkol'nikov, A.S., and Yudin, L.I.

TITLE: The result of applying neutron impulse methods and
apparatus for investigating borehole logs

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 11, 1961, 34,
abstract 11A304 (V sb. Yadern. geofiz. pri poiskakh
polezn. iskopayemykh, M., Gostoptekhnizdat, 1960, 3-20)

TEXT: A borehole impulse generator of neutrons is described toge-
ther with the method of impulse-neutron neutron-logging (INNL). A
description is given for the electronic layout of the borehole ge-
nerator of neutrons and the surface apparatus for impulse neutron
logging. During laboratory tests of the generator a stable mean neu-
tron yield of $\sim 2 \times 10^7$ neutr./sec. was obtained at 100 kv. of acce-
lerating voltage in the tube. The impulse duration amounted to 100

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The result of applying neutron ...

5/169/61/000/011/027/065
D228/D304

u sec, the transmission frequency being 400 c/s. The neutron generator was used in the commercial testing of INNL. INNL readings against oil-bearing beds exceed by 10 times those for aquiferous beds containing mineralized water, at a delay time of 1000 msec. Certain impediments and limitations of thermal impulse neutron-logging in different oil- and water-saturated beds are indicated, and the requirements for the apparatus are stated. Further prospects are indicated for the application of impulse neutron generators. [Abstractor's note: Complete translation].

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POPOV, N V

~~INT. SEC. (C.D.)~~

PHASE I BOOK EXPLOITATION SOV/5410

Tashkentskaya konferentsiya po mirnomu ispol'zovaniyu atomnoy energii, Tashkent, 1959.

Trudy (Transactions of the Tashkent Conference on the Peaceful Uses of Atomic Energy) v. 2. Tashkent, Izd-vo AN UzSSR, 1960. 449 p. Errata slip inserted. 1,500 copies printed.

Sponsoring Agency: Akademiya nauk Uzbekskoy SSR.

Responsible Ed.: S. V. Starodubtsev, Academician, Academy of Sciences Uzbek SSR. Editorial Board: A. A. Abdullayev, Candidate of Physics and Mathematics; D. M. Abdurazulov, Doctor of Medical Sciences; U. A. Arifov, Academician, Academy of Sciences Uzbek SSR; A. A. Borodulina, Candidate of Biological Sciences; V. N. Ivashev; G. S. Ikramova; A. Ye. Kiv; Ye. M. Irbatov, Candidate of Physics and Mathematics; A. I. Nikolayev, Candidate of Medical Sciences; D. Michanov, Candidate of Chemical Sciences; A. S. Sadykov, Corresponding Member, Academy of Sciences USSR, Academician, Academy of Sciences Uzbek SSR; Yu. N. Talanin,

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Transactions of the Tashkent (Cont.)

SCV/5410

Candidate of Physics and Mathematics; Ya. Kh. Turakulov, Doctor of Biological Sciences. Ed.: R. I. Khamidov; Tech. Ed.: A. G. Babakhanova.

PURPOSE: The publication is intended for scientific workers and specialists employed in enterprises where radioactive isotopes and nuclear radiation are used for research in chemical, geological, and technological fields.

COVERAGE: This collection of 133 articles represents the second volume of the Transactions of the Tashkent Conference on the Peaceful Uses of Atomic Energy. The individual articles deal with a wide range of problems in the field of nuclear radiation, including: production and chemical analysis of radioactive isotopes; investigation of the kinetics of chemical reactions by means of isotopes; application of spectral analysis for the manufacturing of radioactive preparations; radioactive methods for determining the content of elements in the rocks; and an analysis of methods for obtaining pure substances. Certain

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instruments used, such as automatic regulators, flowmeters, level gauges, and high-sensitivity gamma-relays, are described. No personalities are mentioned. References follow individual articles.

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RADIOACTIVE ISOTOPES AND NUCLEAR RADIATION
IN ENGINEERING AND GEOLOGY

Lobanov, Ye. M. [Institut yadernoy fiziki UzSSR - Institute of Nuclear Physics AS UzSSR]. Application of Radioactive Isotopes and Nuclear Radiation in Uzbekistan

7

Taksar, I. M., and V. A. Yanushkovskiy [Institut fiziki AN Latv SSR - Institute of Physics AS Latvian SSR]. Problems of the Typification of Automatic-Control Apparatus Based on the Use of Radioactive Isotopes

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POPOV, N V.

PHASE I BOOK EXPLOITATION SOV/5592

Vsesoyuznoye soveshchaniye po vnedreniyu radioaktivnykh izotopov i yadernykh izlucheniyy v narodnom khozyaystve SSSR. Riga, 1960.

Radioaktivnyye izotopy i yadernyye izlucheniya v narodnom khozyaystve SSSR; trudy Vsesoyuznogo soveshchaniya 12 - 16 aprelya 1960 g. S. Riga, v 4 tomakh. t. 4: Poiski, razvedka i razrabotka poleznykh iskopayemykh (Radioactive isotopes and Nuclear Radiation in the National Economy of the USSR; Transactions on the Symposium Held in Riga, April 12 - 16, 1960, in 4 volumes. v. 4: Prospecting, Surveying, and Mining of Mineral Deposits) Moscow, Gostoptekhizdat, 1961. 284 p. 3,640 copies printed.

Sponsoring Agency: Gosudarstvennyy nauchno-tekhnicheskyy komitet Soveta Ministrov SSSR. Gosudarstvennyy komitet Soveta Ministrov SSSR po ispol'zovaniyu atomnoy energii

Eds. (Title page): N. A. Petrov, L. I. Petrenko, and P. S. Savitskiy; ed. of this volume: M. A. Speranskiy; Scientific ed.: M. A. Speranskiy; Executive Eds.: N. N. Kuz'mina and A. G. Ionel';

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